Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	50	H04N5/335.ipc. and image NEAR1 sensor.ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2006/08/01 09:41
L2	10	H04N5/335.ipc. and image NEAR1 sensor.ti. and adc	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2006/08/01 09:47
L3	2	H04N5/335.ipc. and image NEAR1 sensor.ti. and adc	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2006/08/01 09:47
L4	3074	(341/144,155).CCLS.	USPAT	OR	OFF	2006/08/01 10:01
L5	1409	(348/308,241,300,301,294).CCLS.	USPAT	OR	OFF	2006/08/01 10:01
L6	599	(analog ADJ1 digital or ad or adc) image array ampl\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2006/08/01 10:03
L7	3	(analog ADJ1 digital or ad or adc) image array ampl\$5 and l1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2006/08/01 10:03
L8	6	(analog ADJ1 digital or ad or adc) image array ampl\$5 and I4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2006/08/01 10:03
L9	15	(analog ADJ1 digital or ad or adc) image array ampl\$5 and I5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2006/08/01 10:03

			1.10			2006/62/24
L10	0	(analog ADJ1 digital or ad or adc) image array ampl\$5 and I5 and I4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2006/08/01 10:04
S1	1	2000-312347	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/07/31 10:26
S2	41	kazuki NEAR1 fujita	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/07/31 10:29
S3	20	kazuki NEAR1 fujita harumichi NEAR1 mori	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/07/31 10:30
S4	1	kazuki NEAR1 fujita harumichi NEAR1 mori hiroo NEAR1 yamamoto	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/07/31 10:48
S5	1	adc residual m NEAR1 bit n NEAR1 bit ampl\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2006/07/31 10:51
S6	0	adc m NEAR1 bit n NEAR1 bit ampl\$5 array	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2006/07/31 10:51
S7	0	adc m NEAR1 bit n NEAR1 bit ampl\$5 array	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	SAME	»ON	2006/07/31-10:52

S8	2	adc two NEAR1 stage array	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2006/07/31 10:53
S9	11	(analog ADJ1 digital or ad or adc) image array (residual or difference) ampl\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2006/08/01 10:02
S10	65	(analog ADJ1 digital or ad or adc) image array (residual or difference) ampl\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2006/07/31 11:09
S11	0	ho4n ADJ1 5/335	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB		ON	2006/07/31 11:13
S12	0	ho4n5/335.ipc.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2006/07/31 11:13
S13	0	ho4n05/335.ipc.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB		ON	2006/07/31 11:13
S14	0	H04N05/335.ipc.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2006/07/31 11:14
S15	253	H04N5/335.ipc.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2006/07/31 11:15

S16	. 4	H04N5/335.ipc. and 341/155	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2006/08/01 10:01
S17	37	H04N5/335.ipc. and adc	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2006/07/31 12:59
S18	253	H04N5/335.ipc.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2006/08/01 09:41
S19	0	(analog ADJ1 digital or ad or adc) image array (residual or difference) ampl\$5 and S18	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	WITH 2.000 (1.000)	ON	2006/07/31 13:00
S20	6	(analog ADJ1 digital or ad or adc) image array ampl\$5 and S18	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2006/07/31 13:00



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Volume 1, 16-22 Oct. 2004 Page(s):296 - 300 Vol. 1 Digital Object Identifier 10.1109/NSSMIC.2004.1462201 AbstractPlus | Full Text: PDF(876 KB) | IEEE CNF Rights and Permissions 6. An 8-bit low-power ADC array for CMOS image sensors Tanner, S.; Heubi, A.; Ansorge, M.; Pellandini, F.; Electronics, Circuits and Systems, 1998 IEEE International Conference on Volume 1, 7-10 Sept. 1998 Page(s):147 - 150 vol.1 Digital Object Identifier 10.1109/ICECS.1998.813290 AbstractPlus | Full Text: PDF(368 KB) IEEE CNF Rights and Permissions 7. A CMOS image sensor with analog two-dimensional DCT-based compres one-chip cameras Kawahito, S.; Yoshida, M.; Sasaki, M.; Umehara, K.; Miyazaki, D.; Tadokoro, Y Doushou, S.; Matsuzawa, A.; Solid-State Circuits, IEEE Journal of Volume 32, Issue 12, Dec. 1997 Page(s):2030 - 2041 Digital Object Identifier 10.1109/4.643661 AbstractPlus | References | Full Text: PDF(308 KB) | IEEE JNL Rights and Permissions 8. CMOS active pixel sensor with on-chip successive approximation analog П converter Zhimin Zhou; Pain, B.; Fossum, E.R.; Electron Devices, IEEE Transactions on Volume 44, Issue 10, Oct. 1997 Page(s):1759 - 1763 Digital Object Identifier 10.1109/16.628833 AbstractPlus | References | Full Text: PDF(124 KB) | IEEE JNL Rights and Permissions 9. A mixed-signal array processor with early vision applications П Martin, D.A.; Hae-Seung Lee; Masaki, I.; Solid-State Circuits, IEEE Journal of Volume 33, Issue 3, March 1998 Page(s):497 - 502 Digital Object Identifier 10.1109/4.661216 AbstractPlus | References | Full Text: PDF(148 KB) | IEEE JNL Rights and Permissions 10. A Nyquist-rate pixel-level ADC for CMOS image sensors Yang, D.X.D.; Fowler, B.; El Gamal, A.; Solid-State Circuits, IEEE Journal of Volume 34, Issue 3, March 1999 Page(s):348 - 356 Digital Object Identifier 10.1109/4.748186 AbstractPlus | References | Full Text: PDF(792 KB) | IEEE JNL Rights and Permissions 11. A cyclic A/D converter with pixel noise and column-wise offset canceling image sensors Furuta, M.; Kawahito, S.; Inoue, T.; Nishikawa, Y.; Solid-State Circuits Conference, 2005. ESSCIRC 2005. Proceedings of the 31 12-16 Sept. 2005 Page(s):411 - 414 Digital Object Identifier 10.1109/ESSCIR.2005.1541647 AbstractPlus | Full Text: PDF(240 KB) IEEE CNF Rights and Permissions 12. Preliminary results of a data acquisition sub-system for distributed, digit П computational, APD-based, dual-modality PET/CT architecture for small a

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A 3-pin 1.5 V 550 mW 176 x 144 self-clocked CMOS active pixel image sensor

Kwang-Bo Cho, Alexander Krymski, Eric Fossum

window

August 2001 Proceedings of the 2001 international symposium on Low power electronics and design

Publisher: ACM Press

Full text available: pdf(350.69 KB) Additional Information: full citation, references, index terms

Keywords: CMOS, active pixel sensor, image sensor, low-power, low-voltage, selfclocked

2 Track 6: autonomic and organic computing: Marching-pixels: a new organic

computing paradigm for smart sensor processor arrays

Dietmar Fey, Daniel Schmidt

May 2005 Proceedings of the 2nd conference on Computing frontiers

Publisher: ACM Press

Full text available: pdf(606.57 KB) Additional Information: full citation, abstract, references, index terms

In this paper we present a new organic computing principle denoted as marching pixels for the architectures of future smart CMOS camera chips. The idea of marching pixels is based on the realization of a massively-parallel fine-grain single-chip processor array. Marching pixels are virtual organic units which are propagating in a pixel processor array, similar to virtual ants in ant algorithms. The task of the marching pixels is to carry out autonomously important image pre-processing tasks, e.g ...

Keywords: image pre-processing, organic computing, self-organization, smart CMOS camera, smart pixels

3 SPOTS'06 session 4--new sensors and architectures: The low power energy aware

processing (LEAP)embedded networked sensor system

Dustin McIntire, Kei Ho, Bernie Yip, Amarjeet Singh, Winston Wu, William J. Kaiser April 2006 Proceedings of the fifth international conference on Information

processing in sensor networks IPSN '06

Publisher: ACM Press

Full text available: pdf(200.80 KB) Additional Information: full citation, abstract, references, index terms

A broad range of embedded networked sensor (ENS) systems for critical environmental monitoring applications now require complex, high peak power dissipating sensor devices, as well as on-demand high performance computing and high bandwidth communication. Embedded computing demands for these new platforms include support for computationally intensive image and signal processing as well as optimization and statistical computing. To meet these new requirements while maintaining critical support for ...

Keywords: embedded wireless networked sensor, energy-aware multiprocessor platform, sensor platform hardware and software architecture

Applications: Cyclops: in situ image sensing and interpretation in wireless sensor



networks

Mohammad Rahimi, Rick Baer, Obimdinachi I. Iroezi, Juan C. Garcia, Jay Warrior, Deborah Estrin, Mani Srivastava

November 2005 Proceedings of the 3rd international conference on Embedded networked sensor systems SenSys '05

Publisher: ACM Press

Full text available: pdf(1.25 MB) Additional Information: full citation, abstract, references, index terms

Despite their increasing sophistication, wireless sensor networks still do not exploit the most powerful of the human senses: vision. Indeed, vision provides humans with unmatched capabilities to distinguish objects and identify their importance. Our work seeks to provide sensor networks with similar capabilities by exploiting emerging, cheap, low-power and small form factor CMOS imaging technology. In fact, we can go beyond the stereo capabilities of human vision, and exploit the large scale of ...

Keywords: CMOS imaging, imaging, power efficiency, sensor network, vision

5 (Special session) presentation + poster disscussion: university design contest: Design of real-time VGA 3-D image sensor using mixed-signal techniques Yusuke Oike, Makoto Ikeda, Kunihiro Asada



January 2004 Proceedings of the 2004 conference on Asia South Pacific design automation: electronic design and solution fair ASP-DAC '04, Proceedings of the 2004 conference on Asia South Pacific design automation: electronic design and solution fair ASP-DAC '04

Publisher: IEEE Press IEEE Press

Publisher Site

Full text available: pdf(506.41 KB)

Additional Information: full citation, abstract, references

We have developed the first real-time 3-D image sensor with VGA pixel resolution using mixed-signal techniques to achieve high-speed and high-accuracy range calculation based on a light-section method. Our mixed-signal position detector, which consists of an adaptive threshold circuit and time-domain approximate ADCs, provides significant information for range finding quickly during high-speed analog-to-digital conversion. Moreover the position address and the intensity profile of a projected be ...

High dynamic range imaging



Paul Debevec, Erik Reinhard, Greg Ward, Sumanta Pattanaik

August 2004 Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH

Publisher: ACM Press

Full text available: pdf(20.22 MB) Additional Information: full citation, abstract

Current display devices can display only a limited range of contrast and colors, which is one of the main reasons that most image acquisition, processing, and display techniques use no more than eight bits per color channel. This course outlines recent advances in . high-dynamic-range imaging, from capture to display, that remove this restriction, thereby enabling images to represent the color gamut and dynamic range of the original scene rather than the limited subspace imposed by current monitor ...

7 VLSI circuits: Design of a nanosensor array architecture

Wei Xu, N. Vijaykrishnan, Y. Xie, M. J. Irwin

April 2004 Proceedings of the 14th ACM Great Lakes symposium on VLSI

Publisher: ACM Press

Full text available: pdf(1.37 MB) Additional Information: full citation, abstract, references, index terms

This paper describes a nanowire sensor array architecture for high-speed, high-accuracy sensor systems. The chip has very simple processing elements (PEs) in a massively parallel architecture, in which each PE is directly connected to seven sensors. A sampling rate of 100 ns is enough to realized high-speed sensing feedback for electronic nose. We aim to create a very simple architecture, because a compact design is required ton integrate as many PEs as possible on a single chip. A widely used, ...

Keywords: electronic nose, gas sensing, nanowire sensor array, pattern recognition, sensor pre-processing

A smart position sensor for 3-D measurement

Tomohiro Nezuka, Masashi Hoshino, Makoto Ikeda, Kunihiro Asada January 2001 Proceedings of the 2001 conference on Asia South Pacific design

automation

Publisher: ACM Press

Additional Information: full citation, abstract, references, index terms Full text available: pdf(1.12 MB)

A smart position sensor for 3-D measurement has been developed. The sensor is designed for detecting positions of laser spots projected on target objects quickly. The sensor has a 256 x 256 pixel array, a set of address decoders for variable block access and a variable block logical-OR circuit on an 8.9mm x 8.9mm die. The sensor is designed and fabricated in 0.6um CMOS 3-metal 2-poly-Si process. The measured accuracy of 3-D measurement is 0.4%. The speed of 3-D measurement is up to 10000poi \dots

Towards design and validation of mixed-technology SOCs

S. Mir, B. Charlot, G. Nicolescu, P. Coste, F. Parrain, N. Zergainoh, B. Courtois, A. Jerraya, M.

March 2000 Proceedings of the 10th Great Lakes symposium on VLSI

Publisher: ACM Press

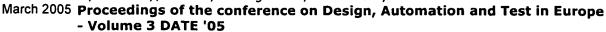
Full text available: pdf(581.54 KB) Additional Information: full citation, abstract, references, index terms

This paper illustrates an approach to design and validation of heterogeneous systems. The emphasis is placed on devices which incorporate MEMS parts in either a single mixedtechnology (CMOS + micromachining) SOC device, or alternatively as a hybrid system with the MEMS part in a separate chip. The design flow is general, and it is illustrated for the case of applications embedding CMOS sensors. In particular, applications based on finger-print recognition are considered since a ric ...

Keywords: HDLs, MEMS, SOCs, architecture exploration, cosimulation, design, verification

A CMOS-Based Tactile Sensor for Continuous Blood Pressure Monitoring

K.-U. Kirstein, J. Sedivy, T. Salo, C. Hagleitner, T. Vancura, A. Hierlemann



Publisher: IEEE Computer Society

Full text available: pdf(229.33 KB) Additional Information: full citation, abstract, index terms

A monolithic integrated tactile sensor array is presented, which is used to perform non-invasive blood pressure monitoring of a patient. The advantage of this device compared to a hand cuff based approach is the capability of recording continuous blood pressure data. The capacitive, membrane-based sensor device is fabricated in an industrial CMOS-technology combined with post-CMOS micromachining. The capacitance change is detected by a ¿¿-modulator. The modulator is operated at a sampling rate o ...

11 Recovering high dynamic range radiance maps from photographs

Paul E. Debevec, Jitendra Malik

August 1997 Proceedings of the 24th annual conference on Computer graphics and interactive techniques

Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available: pdf(1.43 MB)

Additional Information: full citation, references, citings, index terms

12 Poster session: Wireless sensor networks: a power-scalable motion estimation IP for

hybrid video coding

Federico Quaglio, Maurzio Martina, Fabrizio Vacca, Guido Masera, Andrea Molino, Gianluca Piccinini, Maurizio Zamboni

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays

Publisher: ACM Press

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

Wireless Sensor Networks are an emerging phenomenon in the research community. The design and development of network architectures and nodes implementation are fostering many research activities. Due to their wide application fields and pervasive employment possibilities, the investigation of novel classes of wireless sensor nodes is of great concern. In this paper we presented a novel Power-Scalable Motion Estimation IP suitable for video-surveillance over Wireless Sensor Networks. The proposed ...

13 Poster session: A single-FPGA implementation of image connected component

labelling

K. Benkrid, S. Sukhsawas, D. Crookes, S. Belkacemi

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays

Publisher: ACM Press

Full text available: pdf(187.05 KB) Additional Information: full citation, abstract

This paper describes an architecture based on a serial iterative algorithm for Image Connected Component Labelling with a hardware complexity O(N) for an NxN image. The algorithm iteratively scans the input image, performing a recursive non-zero maximum neighbourhood operation. A complete forward pass is followed by an inverse pass in which the image is scanned in reverse order. The process is repeated until no change in the image occurs. The algorithm has been coded in Handel C language and tar ...

Poster session: A physical retiming algorithm for field programmable gate arrays (abstract only)



Peter Suaris, Dongsheng Wang, Pei-Ning Guo, Nan-Chi Chou

February 2003 Proceedings of the 2003 ACM/SIGDA eleventh international symposium on Field programmable gate arrays

Publisher: ACM Press

Full text available: Dodf(187.05 KB) Additional Information: full citation, abstract

In this paper, we present a physical retiming algorithm for sequential circuits implemented in field programmable gate arrays (FPGAs). This algorithm can speed up the sequential circuits by reducing delay of all critical paths with negative slacks. By taking advantage of the physical information provided by placed circuits, this algorithm integrates two operations: retiming and register duplication. Retiming moves registers across combinational components. Register duplication moves registers ac ...

15 Exploiting FPGA-features during the emulation of a fast reactive embedded system





Karlheinz Weiß, Thorsten Steckstor, Gernot Koch, Wolfgang Rosenstiel February 1999 Proceedings of the 1999 ACM/SIGDA seventh international symposium

on Field programmable gate arrays

Publisher: ACM Press

Full text available: pdf(2.02 MB)

Additional Information: full citation, references, citings, index terms

16 SPOTS'06 session 2--sensor network testbeds: Marionette: using RPC for interactive





development and debugging of wireless embedded networks

Kamin Whitehouse, Gilman Tolle, Jay Taneja, Cory Sharp, Sukun Kim, Jaein Jeong, Jonathan Hui, Prabal Dutta, David Culler

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Publisher: ACM Press

Full text available: pdf(358.52 KB) Additional Information: full citation, abstract, references, index terms

A main challenge with developing applications for wireless embedded systems is the lack of visibility and control during execution of an application. In this paper, we present a tool suite called Marionette that provides the ability to call functions and to read or write variables on pre-compiled, embedded programs at run-time, without requiring the programmer to add any special code to the application. This rich interface facilitates interactive development and debugging at minimal cost ...

Keywords: RPC, debugging, embedded networks, programming

17 Smart pixel implementation of a 2-D parallel nucleic wavelet transform for mobile multimedia communications



A. M. Rassau, K. Eshraghian, H. Cheung, S. W. Lachowicz, T. C. B. Yu, W. A. Crossland, T. D. Wilkinson

February 1998 Proceedings of the conference on Design, automation and test in Europe

Publisher: IEEE Computer Society

Full text available: pdf(75.54 KB)

Publisher Site

Additional Information: full citation, abstract, references, index terms

A novel Smart Pixel Opto-VLSI architecture to implement a complete 2-D wavelet transform of real-time captured images is presented. The Smart Pixel architecture enables the realization of a highly parallel, compact, low power device capable of real-time capture, compression, decompression and display of images suitable for Mobile Multimedia Communication applications.

Keywords: Image Processing, Real-Time Systems, Parallel Processing, Wavelet Tranform, Sensor Array, Multimedia, Mobile Telecommunication

18 Applications and OS: Wireless sensor networks for habitat monitoring



Alan Mainwaring, David Culler, Joseph Polastre, Robert Szewczyk, John Anderson September 2002 Proceedings of the 1st ACM international workshop on Wireless sensor networks and applications

Publisher: ACM Press

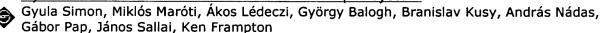
Full text available: pdf(542.04 KB)

Additional Information: full citation, abstract, references, citings, index terms

We provide an in-depth study of applying wireless sensor networks to real-world habitat monitoring. A set of system design requirements are developed that cover the hardware design of the nodes, the design of the sensor network, and the capabilities for remote data access and management. A system architecture is proposed to address these requirements for habitat monitoring in general, and an instance of the architecture for monitoring seabird nesting environment and behavior is presented. The cu ...

Keywords: environmental monitoring, habitat monitoring, low power systems, sensor network architecture, wireless sensor networks

19 Systems 1: Sensor network-based countersniper system



November 2004 Proceedings of the 2nd international conference on Embedded networked sensor systems

Publisher: ACM Press

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Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>

An ad-hoc wireless sensor network-based system is presented that detects and accurately locates shooters even in urban environments. The system consists of a large number of cheap sensors communicating through an ad-hoc wireless network, thus it is capable of tolerating multiple sensor failures, provides good coverage and high accuracy, and is capable of overcoming multipath effects. The performance of the proposed system is superior to that of centralized countersniper systems in such challe ...

Keywords: acoustic source localization, data fusion, message routing, middleware services, sensor networks, time synchronization

²⁰ Creating reference architectures: an example from avionics

Don Batory, Lou Coglianese, Mark Goodwin, Steve Shafer

August 1995 ACM SIGSOFT Software Engineering Notes, Proceedings of the 1995 Symposium on Software reusability SSR '95, Volume 20 Issue SI

Publisher: ACM Press

Full text available: pdf(1.08 MB)

Additional Information: full citation, abstract, references, citings, index terms

- ADAGE is a project to define and build a domain-specific software architecture (DSSA) environment for assisting the development of avionics software. A central concept of DSSA is the use of software system generators to implement component-based models of software synthesis in the target domain [SEI90]. In this paper, we present the ADAGE component-based model (or reference architecture) for avionics software synthesis. We explain the modeling procedures used, review our initial g ...

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